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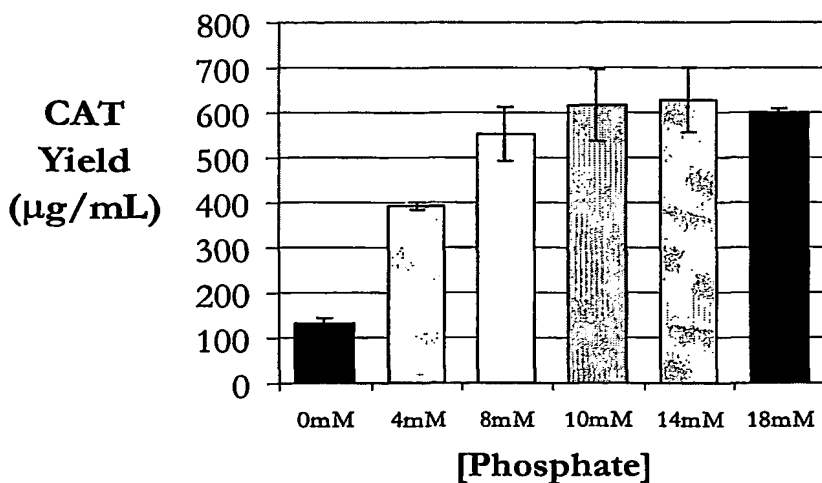
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(54) Title: IMPROVED METHODS OF *IN VITRO* PROTEIN SYNTHESIS



(57) Abstract: Improved methods are provided in vitro synthesis of biological molecules, providing for improved yields, lowered costs, and enhanced utility. Improved yield and lowered cost is obtained by the use of a phosphate free energy source in the presence of exogenous phosphate, and optionally in the absence of exogenous nucleoside triphosphates.